

IN THE CLAIMS

Please amend the claims as follows:

1. (previously amended) A work machine for traversing terrain, comprising:
  - a chassis;
  - at least one ground engaging member having limits of travel;
  - at least one elongate member each having a first end and a second end;
  - said first end rotatably coupled with said chassis;
  - said second end coupled to said ground engaging member;
  - a position sensor for generating a position signal indicative of an orientation of said elongate member relative to said chassis and relaying said position signal to said controller;
  - a roll sensor for generating a orientation signal indicative of a transverse pitch of said chassis and relaying said orientation signal to said controller; and
  - a controller for calculating an average slope value of the terrain and adjusting the chassis to a desired orientation in response thereto based on said position signal and said orientation signal;
  - wherein said controller adjusts the chassis in response to said position signal of at least one of said ground engaging member reaching said limits of travel.
2. (original) The work machine as set forth in claim 1 wherein said position sensor comprises a potentiometer.
3. (original) The work machine as set forth in claim 1 wherein said chassis includes:
  - a cab portion; and
  - a first trailer portion hingedly coupled to said cab portion.

4. (original) The work machine as set forth in claim 1 including a motive device coupled to said second end for imparting motion to said ground engaging member.

5. (original) The work machine as set forth in claim 4 wherein said motive device is a hydraulic motor.

6. (previously amended) The work machine as set forth in claim 3 including a second trailer portion coupled to said first trailer portion.

7. (original) The work machine as set forth in claim 6 wherein said second trailer portion is articulable relative to said first trailer portion.

8. (previously amended) The work machine as set forth in claim 1 wherein: said controller, in response to at least one of said position signal or said orientation signal, adjusts at least one said elongate member to orient said chassis substantially horizontally.

9. (previously amended) The work machine as set forth in claim 1 wherein said roll sensor comprises a gravity operated sensor.

10. (original) The work machine as set forth in claim 9 wherein said gravity operated sensor is a pendulum.

11. (canceled)

12. (canceled)

13. (canceled)

14. (currently amended) A method of stabilizing the chassis of a work machine ~~of the type~~ used for traversing terrain and having at least one elongate member having a first end rotatably coupled with the chassis and having limits of travel, comprising the steps of:

sensing the orientation of at least one of the elongate members ~~having limits of travel~~ and generating a position signal in response thereto;

sensing the transverse pitch of the chassis and generating ~~[[a]]~~ an orientation signal in response thereto;

sensing when the said elongate member is reaching said limits of travel in response to said position signal;

calculating an average slope value of the terrain based on said position signal and orientation signal;

adjusting the chassis to a desired orientation in response to said average slope value; and

adjusting the chassis in response to at least one of said elongate member reaching said limits of travel.

15. (previously amended) The method as set forth in claim 14 wherein the desired orientation of the chassis is substantially horizontal.

16. (previously amended) The method as set forth in claim 15 wherein said step of sensing the transverse pitch of the chassis is with a gravity operated sensor.

17. (original) The method as set forth in claim 14 including the step of:  
providing the chassis with a cab portion and a first trailer portion hingedly coupled to said cab portion.

18. (original) The method as set forth in claim 17 including the step of providing a second trailer portion coupled to said first trailer portion.

19. (previously amended) The method as set forth in claim 14 wherein said step of sensing the orientation of at least one of the elongate members is with a potentiometer.

20. (currently amended) A method of stabilizing the chassis of a work machine ~~of the type~~ used for traversing terrain and having at least one elongate member having a first end rotatably coupled with the chassis and having limits of travel, comprising the steps of:

sensing the orientation of at least one of the elongate member ~~having limits of travel~~ and generating a position signal in response thereto;

sensing when the said elongate member is reaching said limits of travel in response to said position signal; and

adjusting the chassis ~~[[to]]~~ in response to said elongate member reaching said limits of travel.